# FLK 20/EZ-DR/ 150KONFEK - Cable

2296472

https://www.phoenixcontact.com/us/products/2296472

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 1.5 m

## Your advantages

- Unshielded

## Commercial data

| | |
|---|---|
| Item number | 2296472 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C421 |
| Product key | DK2211 |
| GTIN | 4017918569259 |
| Weight per piece (including packing) | 134.2 g |
| Weight per piece (excluding packing) | 130.3 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

# Technical data

## Product properties

| | |
|---|---|
| Product type | System cable |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP00 |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation) (fixed installation) | -40 °C ... 70 °C (fixed installation) |
| Ambient temperature (operation) (flexible installation) | -10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 2000 m |

## Electrical properties

| | |
|---|---|
| Operating voltage (AC) | ≤ 30 V AC |
| Operating voltage (DC) | ≤ 60 V DC |
| Nominal operating mode | 100% operating factor |
| Current (Per path, 50°C) | ≤ 1 A (Uncoiled, see derating) |
| Current (Per path, 70°C) | ≤ 0.6 A (Uncoiled, see derating) |

## Cable/line

| | |
|---|---|
| Cable length | 1.5 m |

20X0.14 [PVC]

| | |
|---|---|
| UL AWM Style | 2464/1061 |
| Number of positions | 20 |
| Shielded | no |
| Cable type | 20X0.14 [PVC] |
| Conductor type | Round cable set |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross-section | 20x 0.14 mm² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 7.60 mm ±0.4 mm |
| Outer sheath, material | Semi-rigid PVC |
| External sheath, color | gray |
| Conductor material | Tin-plated Cu litz wires |
| Cable resistance | ≤ 145 Ω/km (20 °C) |
| Insulation resistance | ≥ 20 MΩ*km (20 °C) |
| Smallest bending radius, fixed installation | 64 mm |
| Smallest bending radius, movable installation | 120 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000 (at a radius of ≥ 15x outside diameter) |

| | |
|---|---|
| Halogen-free | no |
| Flame resistance | IEC 60332-1-2 (raw cable) |
| | VDE 0842, Part 332-1-2 (raw cable) |
| | IEC 60332-3-22 (raw cable) |
| | UL VW-1 |
| | CSA FT-1 |
| Resistance to oil | can withstand occasional splashes (raw cable) |
| Cable type | Cable for one module |

Color code: Single-core wire

| | |
|---|---|
| black | IDC/FLK20 (1) = IDC/FLK20 (1) |
| brown | IDC/FLK20 (2) = IDC/FLK20 (2) |
| red | IDC/FLK20 (3) = IDC/FLK20 (3) |
| orange | IDC/FLK20 (4) = IDC/FLK20 (4) |
| yellow | IDC/FLK20 (5) = IDC/FLK20 (5) |
| green | IDC/FLK20 (6) = IDC/FLK20 (6) |
| blue | IDC/FLK20 (7) = IDC/FLK20 (7) |
| violet | IDC/FLK20 (8) = IDC/FLK20 (8) |
| gray | IDC/FLK20 (9) = IDC/FLK20 (9) |
| white | IDC/FLK20 (10) = IDC/FLK20 (10) |
| white-black | IDC/FLK20 (11) = IDC/FLK20 (11) |
| white-brown | IDC/FLK20 (12) = IDC/FLK20 (12) |
| white-red | IDC/FLK20 (13) = IDC/FLK20 (13) |
| white-orange | IDC/FLK20 (14) = IDC/FLK20 (14) |
| white-yellow | IDC/FLK20 (15) = IDC/FLK20 (15) |
| white-green | IDC/FLK20 (16) = IDC/FLK20 (16) |
| white-blue | IDC/FLK20 (17) = IDC/FLK20 (17) |
| white-violet | IDC/FLK20 (18) = IDC/FLK20 (18) |
| white-gray | IDC/FLK20 (19) = IDC/FLK20 (19) |
| brown-black | IDC/FLK20 (20) = IDC/FLK20 (20) |

## Connection data

Connection 1

| | |
|---|---|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 20 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Connection 2

| | |
|---|---|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |

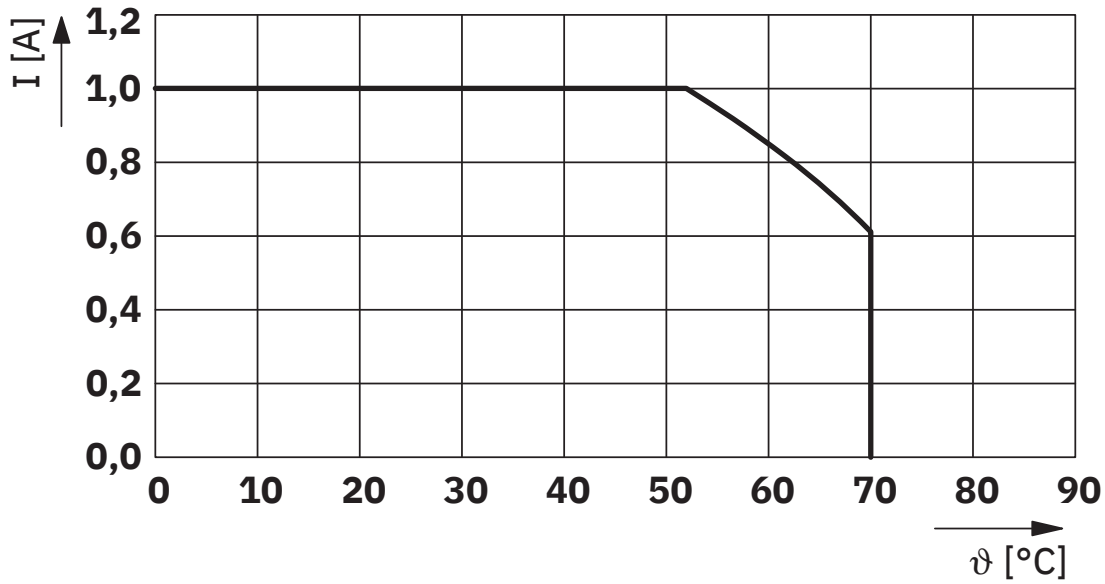
| | |
|---|---|
| Number of positions | 20 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

## Notes

| | |
|---|---|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |

## Drawings

Diagram




Maximum permissible current per path in uncoiled state

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2296472

**EAC**
Approval ID: RU*-DE.HB*35.B00385

**UL Listed**
Approval ID: E238705

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 1 A | - | - |

**cUL Listed**
Approval ID: E238705

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 1 A | - | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27242220 |
| ECLASS-15.0 | 27242220 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000237 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 26121600 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.584 kg CO2e |

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